

1915

MANUFACTURING

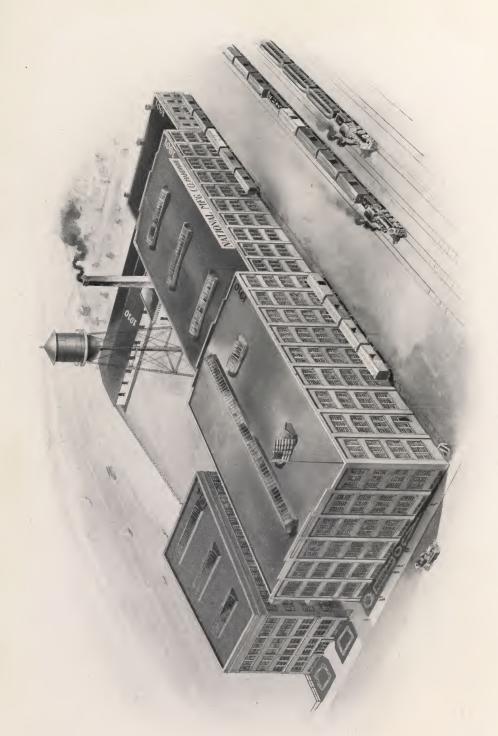








NATIONAL MANUFACTURING COMPANY STERLING, ILLINOIS



As viewed from over the city



As viewed from over Rock River

Method of Distribution

Since its organization, in 1901, it has been the policy of this Company to sell its product only through the retail dealers. By this sales method, we have been able to give our customers a better quality of goods, prompt shipment of goods as ordered without substitution, and co-operation in advertising and selling them.

The size and variety of our stock enable the dealer to make up an order of a size sufficient to weigh 200 pounds or more, and thus secure the benefit of our liberal freight allowance.

The original and convenient methods used in packing our goods, as described on page 7 of this catalog, bring the goods to you in good condition, and save time for both clerks and customers.

Quality of Goods

In the construction of our goods only the best grades of material are used. Our machines are of the latest design. Our workmen are expert. With our careful method of inspection a perfect product is assured.

Service

A complete stock of all the goods illustrated herein is carried at all times, and orders will be filled promptly. It is our policy to ship all mail orders the same day they are received.

Prices and Terms

A complete net price-list applying to this catalog will be gladly mailed upon request. Inquiries for further detailed information concerning our goods will be cheerfully responded to.

Sherardizing

A satisfactory method of rust-proofing steel or iron has been unknown until recent years. The hot and electro processes of galvanizing have been used with more or less success, but for use under a great many conditions, neither have been entirely satisfactory.

There has now been invented a process of rust-proofing metal called Sherardizing, so named after its inventor, Sherard Cowper-Coles. It is a very simple process, but so very effective, that we have adopted it for use instead of the electro-galvanizing process we have always used in the past.

In Sherardizing, the parts, after being thoroughly cleansed, are put into a large steel drum, with zinc dust. After this the drum is securely closed and put into an oven, and is heated to about 700 degrees. When the parts are heated to this temperature, the molecules of the steel become active and the zinc dust penetrates into the skin of the steel and forms a zinc-iron alloy, or, in other words, becomes part of it.

Sherardizing cannot peal off or crack, and will last for years. Unlike hot or electro-galvanizing, it affords an excellent surface to which paint will firmly adhere.

Every piece of Sherardized goods we send out is subjected to what is known as the Preece test. This is a chemical test, and its action is equivalent to twenty years' exposure to the weather. The finished piece must stand this test or it is rejected by the inspector.

While this is a better and more expensive finish than we have used, we furnish it at the same price. The goods we furnish in this finish are so indicated in the following pages.

Method of Packing with Screws



(See opposite page.)

Time-Saving Methods of Packing

Every hardware dealer who is interested in keeping down the expense of handling goods, and every one of his clerks will appreciate National methods of packing goods.

Our first efforts, of course, are always directed toward producing a perfect product. When this has been accomplished, we pack the goods in the most convenient method for the dealer's use.

All the smaller sizes of Butts and Hinges are packed one pair in an envelope with screws. The larger sizes are packed one pair in a box with screws. This applies not only to Plated finishes, but also to Japan and Bright Steel. All cartons containing one-half and one dozen pairs of Butts or Hinges are sealed with gummed tape. Cartons containing one pair of Butts or Hinges are not taped, but are tied six pairs in a bundle. A glance will tell whether a carton or package has been opened or not. This method saves the time required to count screws, the loss from careless counting and the dealer's and customer's time. Time in invoicing also is saved, as broken packages can be "spotted" at a glance.

In addition to Door Butts and Hinges, the following goods also are packed with screws:

Barn Door Latches Handle Hinge Hasps and Staples
Strap and "T" Hinges Hinge Hasps
Safety Hasps Door Pulls
No. 35 Automatic Hasps
Foot Scrapers All Plated Goods

Barn Door Hangers are packed as follows:

"Big 4" Hangers, one pair in a box with bolts. (See page 18.)
No. 11 and No. 12 National Hangers, one pair in a box with bolts.

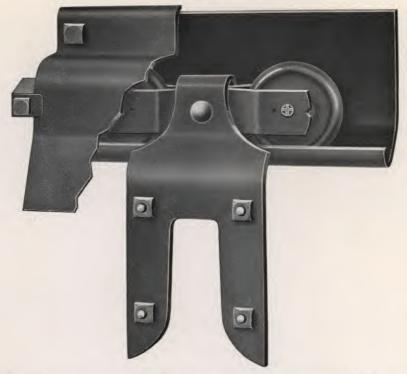
Storm Proof. Hangers, one pair in a box with bolts.

Storm-Proof Hangers, one pair in a box with bolts and lagscrews for rail. (See page 14.)

A perfect product, perfectly packed, properly presented, produces pleasing profits.

No. 66 Rigid Storm-Proof Door Hanger

(Patented September 24, 1912)



This Hanger is very simple in construction, is made of heavy-gauge steel and has great carrying capacity.

Each Hanger has two wheels, in tandem, with anti-friction-steel roller bearings.

That part of the wheel which rolls on the rail is the same diameter in the Storm-Proof Hangers as in the "Big 4" Hangers.

No great care is required in attaching the Hangers to the door, as the equalizing-pin in the center of the wheel-truck insures even distribution of the load to each wheel.

The same careful process of manufacture is used as with the "Big 4" Hangers, insuring a light-running bearing free from japan. Oil-holes for the bearings are also provided.

These Hangers are packed one pair in a box, with bolts for attaching the Hangers to the door; also lag-screws and end-stops for the rail. Each box contains also a set of illustrated directions for attaching the Hangers and rail.

Packed one dozen pairs in a case. Weight, per dozen pairs, 90 pounds.

No. 77 Flexible Storm-Proof Door Hanger

(Patented April 24, 1906) (Patented September 24, 1912)

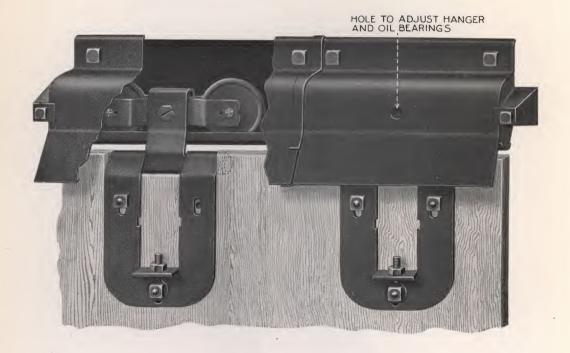


The No. 77 Storm-Proof Hanger incorporates all the excellent features of the No. 66 Storm-Proof Hanger, and in addition it has the flexible hinge-joint. When the door hangs straight down there is no vibration in the Hanger, but the hinged joint allows it to swing out should anything bump against the door. This feature places this Hanger in a class with the "Big 4" and makes it popular with the trade.

These Hangers are packed one pair in a box, with bolts for attaching the Hangers to the door; also lag-screws and end-stops for the rail. Each box contains also a set of illustrated directions for attaching the Hangers and rail.

Packed one dozen pairs in a case. Weight, per dozen pairs, 120 pounds.

No. 88 Adjustable Storm-Proof Door Hanger



The new Adjustable Storm-Proof Hanger illustrated is the same in construction as our No. "77" Flexible, except that it has two adjustment features, vertical and lateral. The adjustment construction is very simple and easily operated.

Another distinctive feature of this construction is that the door is carried closer to the rail than with any other adjustable Hanger we know of.

The Hangers are packed one pair in a box, with bolts for attaching the Hangers to the door; also lag-screws and end-caps for the rail. Each box contains also a set of illustrated directions for attaching the Hangers and rail.

> Packed one dozen pairs in a case. Weight, per dozen pairs, 125 pounds.

Storm-Proof Rail

(Patented September 24, 1912)



Proof Rail.

The cover has been lengthened 11/4 inches, giving ample protection to the opening between the top of the door and the bottom of the Rail. (See illustration on page 12.)

The cover-splice is not used with the new cover, as the ends dove-tail together, giving a snug, weather-proof construction.

A new-style end-cap is also provided, which securely closes the openings in the ends of the Rail. This end-cap is held firmly in place by a 3½ x 1/6-inch lagscrew. It is extra wide at the base, giving additional bracing strength.

These improvements have increased materially the popularity of this Rail. The following are also points of merit:

It fits closely against the building.

It is storm-proof and bird-proof.

No brackets are required, as the Rail itself forms a continuous bracket.

The Rail is exceedingly strong, and will support all the weight the hangers will carry.

The Rail Joints are dove-tailed, forming the sections into practically a onepiece Rail.

The cover can be removed at any time for painting inside of Rail.

The smallest holes shown in the illustration are for use in nailing the Rail into position until the lag-screws can be inserted, as clearly illustrated in directions packed with each pair of hangers. A great convenience.

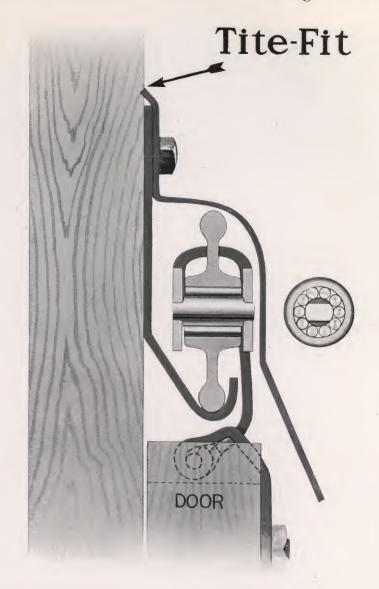
The holes for lag-screws are 2 feet apart.

Size of lag-screws furnished to secure Rail, 21/2 x 3/8 inches; to secure endcaps in Rail, 31/2 x 5/16 inches.

Made in 4-, 6-, 8- and 10-foot lengths, two pieces of a length in a bundle. (For method of packing, see page 13.)

Weight, per hundred feet, 300 pounds.

Sectional View of Storm-Proof Hanger and Rail



This illustration shows very clearly the extra length of the new cover. We have added 1¹4 inches, bringing the cover down to a point where it fully protects the opening above the top of the door.

Note the Tite-Fit, Storm-Proof feature at the top, the perfect tread for the wheels and the roller bearings with which each wheel is equipped.

Method of Packing Storm-Proof Rail



The accompanying illustration shows the method used for packing our Storm-Proof Rail. This method of packing has proved so popular with our customers that it deserves special mention.

Two pieces of a length, both cover and rail, are packed in a bundle. The parts nest compactly together, and consequently occupy less than one-half the space in the store-room, of any other enclosed rail.

The corners and edges are fully protected and cannot get bent in shipping or handling. The rail reaches destination in perfect condition.

Many of our dealers say they seldom find it necessary to open a bundle. For a 4-foot opening, a bundle of two pieces, each 4 feet long, is supplied; for a 6-foot opening, a bundle of two pieces, each 6 feet long; for an 8-foot opening, a bundle of two pieces, each 8 feet long, and for a 10-foot opening, a bundle of two pieces, each 10 feet long.

As the most particular part of hanging a door is lining up the track properly on the building, the rail is made in two pieces, track and cover. The carpenter has only one-half the weight to handle while lining up the rail, as the cover is not put in place until everything is ready for inserting the lag-screws. The rail is very easy to handle, as it is flat like a board.

All these features have been adopted only after careful investigation and experiment, and should be taken into consideration when comparing Storm-Proof with other enclosed rails.

Method of Packing Storm-Proof Hangers



Storm-Proof Hangers are packed one pair in a box, as illustrated. Each box contains the following:

1 pair Hangers

2 end-caps for Rail

Enough bolts to attach Hangers to door

2 lag-screws, $3\frac{1}{2} \times \frac{5}{16}$ inches, to attach end-caps in Rail

10 lag-screws, 2½ x % inches, to attach Rail to building

1 card of directions

Socket wrenches for lag-screws and bolts are also furnished, one with every two pairs of Hangers. Box containing wrench is distinguished by a special label.

Boxes are neatly labeled and will make an attractive appearance on your shelves.

No. 77 Storm-Proof Model



The above is a reproduction of No. 77 Storm-Proof Model. The articles on the Model are all full size, taken from stock, and consist of one pair of No. 77 Storm-Proof Hangers, a section of Storm-Proof Rail, a "Washburne" Latch and a No. 2 Handle Hinge Hasp.

A Model of No. 66 or No. 88 Hangers, similar to above, can also be furnished.

These Models are a big selling help and every dealer should have one.

No. 66 Model weighs 25 pounds

No. 77 Model weighs 30 pounds

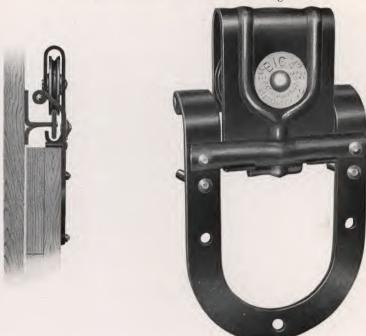
No. 88 Model weighs 35 pounds

NATIONAL STERLING, COMPANY STERLING, ILLINOIS

"Big 4" Flexible Door Hanger

(Patented April 24, 1906)

Anti-Friction-Steel Roller Bearings



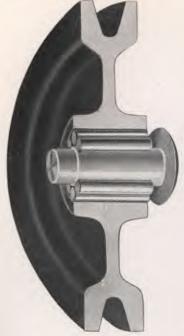
Front view of "Big 4" Hanger

Among all the Barn Door Hangers placed on the market since sliding barn doors have been in use, the "Big 4" stands pre-eminent. Thousands of dozen pairs have been sold and are giving the most satisfactory service under varied conditions in all sections of this country and Canada. No better evidence of its superiority is needed than the long years of satisfactory service it has rendered under every imaginable condition. A customer's best interests are always insured when he is sold "Big 4" Hangers.

The following is a detailed description:

First—The "Big 4" Hanger is built on extremely heavy lines, and in the simplest form of construction. To give greater strength, we now corrugate the hood as shown in the illustration. No complicated parts to get out of order.

Second—The Hanger is made entirely of steel. It is supplied with anti-friction-steel roller bearings, giving a perfectly free motion to the door.



Sectional view of Axle and Bearings

Third—It is both a flexible and a rigid Hanger. When the door is hanging in its normal position, the Hanger is perfectly rigid, there being no vibration as in other flexible hangers. At the same time, if anything should bump against the door, the flexible feature comes into play and the door is allowed to swing out and rise higher than with any other flexible Hanger.

Fourth—The Hanger is fastened to but one side of the door, which makes it much easier to attach than the clevis-style Hanger.

Fifth—There are three bolt-holes in each Hanger, and when coupled up the door comes closer to the track than with any other Hanger.

Sixth—The axle has a shoulder on the end, which prevents the wheel-housing from

being pressed together and binding on the hub of the wheel. The axles and rivets are sherardized, to prevent rust.

Seventh—The wheel and frame are japanned before assembling, and the wheel is reamed out after japanning. This method prevents the japan from getting into the bearings, as it would if the Hanger were dipped after being assembled.

Eighth—The two studs, together with the hook turned under the rail, absolutely prevent the Hanger from jumping the track. The two studs serve also as a guide to attach Hangers to the door.

Weight, per dozen, 95 pounds



Method of Packing "Big 4" Hangers



"Big 4" Hangers are now packed one pair in a box with bolts for attaching the Hangers to the door. A printed tag is also packed with each pair of Hangers, giving a list of the articles required to properly equip each door. This list serves as a reminder to the clerk, and will help make sales of articles listed.

Boxes are neatly labeled and will make an attractive appearance on your shelves.

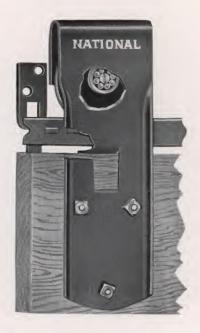
"Big 4" Model



The above illustration is a reproduction of our "Big 4" Model. It shows the "Big 4" Hanger drilled to show Roller Bearings, Braced Rail, "Washburne" Latch and No. 2 Handle Hinge Hasp. The articles on the Model itself are all full size, and the Model is nicely finished and lettered. Every dealer handling the "Big 4" Hanger should have one.

Weight, 20 pounds

"National" Rigid Barn Door Hanger



The steel frame, with edges turned up, makes it very rigid. The lug turned in under the rail keeps the wheel from getting off, and serves as a guide for putting the Hanger on the door. Fitted with anti-friction-steel roller bearings. Packed one pair in a box with bolts. See page 17 for illustration showing bearings.

Made in two sizes, as follows:

- No. 11. Width, $3\frac{1}{2}$ inches. Diameter of wheel, $3\frac{1}{2}$ inches. Weight, per dozen, 60 pounds.
- No. 12. Width, 4½ inches. Diameter of wheel, 4¼ inches. Weight, per dozen, 85 pounds.

"Braced" Rail



 $1\frac{1}{4}$ x $\frac{3}{16}$ inches. Made in 4-, 6-, 8and 10-foot lengths.

This Rail is used with the "Big 4" and National Hangers.

During the time it has been on the market, millions of feet have been sold and are giving universal satisfaction.

The following are points of superiority:

The brackets are the same width and thickness as the Rail itself.

It is braced below, so the screws will hold more than three times as much.

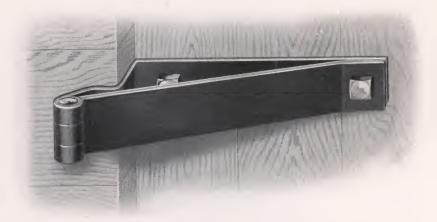
The holes are staggered, so the screws will not go in the same grain of wood.

The brackets are only 12 inches apart and double-riveted, making it very rigid.

Any flat-rail barn door hanger will run on it.

Eight pieces of a length in a bundle. Weight, per hundred feet, 100 pounds.

No. 16 Barn Door Bumper



A good, substantial Barn Door Bumper, placed in the proper position on the building, is very essential in securing the best results with sliding barn door hangers.

Bumpers made of wood do not stand the hard usage and soon become of no value.

To meet the demand for a Barn Door Bumper that will stand the strain, we have placed on the market the one illustrated above.

It is made of 11/2 x 5/32-inch steel.

The Bumper is attached to the building 3 inches above the center of the door with two 2 x %6-inch lag-screws.

The construction of this Bumper is such that it holds the door close against the building.

It has a hinged joint, which provides a convenient method for inserting the first lag-screw.

This Bumper will save the time and labor required to make an inferior article of wood, and one should be used with every pair of hangers.

Packed two in a box, with lag-screws. Weight, per dozen, 20 pounds.

No. 28 "Washburne" Sliding Door Latch Japanned



This Latch is made entirely of steel, and is adapted for use on either right- or left-hand sliding doors.

It is so constructed that it is flush with the door on the inside, so that the door can be opened full width.



Section of door showing "Washburne" Latch attached. Note that the pin is flush with inside of door.

The small hole through which pin extends is bored with ½-inch bit; the large holes for hand-hold with a 1-inch bit, through inside thickness of lumber only.

Envelope with screws and staple attached to each Latch.

Packed one dozen in a box. Six dozen in a case. Weight, per dozen, 10 pounds.

NATIONAL STERLING, COMPANY ILLINOIS

No. 29 All-Steel Latch

Japanned



Door open



Door closed

This is our idea of a perfect Barn Door Latch for swinging doors. As the name implies, it is made entirely of steel.

Owing to the construction of this Latch, harness cannot catch on it. The strike is made with a guard, and the bar extends but %-inch beyond the edge of the door, making a slight projection on which harness cannot possibly catch. This feature alone will sell it.

The door can be locked by inserting shackle of padlock through slot in strike.

Each Latch is supplied with a catch to hold the door open. (See upper illustration.)

Envelope with screws attached to each Latch.

Packed one in a box. (See page 25.) Six dozen in a case. Weight, per dozen, 19 pounds.

Twenty-four

Method of Packing No. 29 All-Steel Latch



One complete Latch in a box, with the necessary screws for attaching the Latch, makes a convenient package.

Your clerks and your customers will like this new method and additional sales will follow.

A perfect Latch, perfectly packed.

NATIONAL MANUFACTURING COMPANY STERLING, ILLINOIS

Door Holder

Japanned



No. 65

When the door swings open, the Holder catches it automatically and holds it open.

Weight, per dozen, 6 pounds.

Stay Roller

Japanned



Reversible and Adjustable

This Stay Roller has double the space between screws of any other; hence has greater bracing strength, and screws will not pull out.

The wheel has a rounded top, which prevents dirt from accumulating and clogging the wheel.

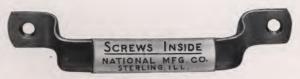
The construction of this Stay Roller prevents its working loose as do the Screw Stay Rollers.

Weight, per dozen, 11 pounds.

Twenty-six

Door Pulls

Made of Steel-Japanned



No. 4 - Cut one-half size

Weight, per dozen, 2½ pounds.

Envelope with screws attached to each Pull.

Packed one dozen in a paper box.

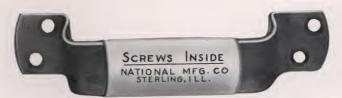


No. 5 Heavy - Cut one-half size

Weight, per dozen, 34 pounds.

Envelope with screws attached to each Pull.

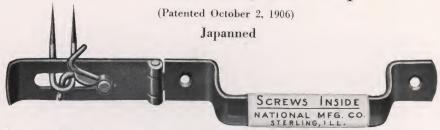
Packed one dozen in a paper box.



No. 6 Extra Heavy - Cut one-half size

Weight, per dozen, 4¼ pounds. Envelope with screws attached to each Pull. Packed one dozen in a paper box.

Handle Hinge Hasp and Staple



No. 2. With hook. Width, 118 inches.

Weight, per dozen, 6 pounds.
Envelope with screws and staple attached to each Handle.
Packed one dozen in a box.



No. 3. With hook. Width, $1^3{}_8$ inches. Extra heavy. Has two screw-holes in each end.

Weight, per dozen, 8 pounds.
Envelope with screws and staple attached to each Handle.
Packed one dozen in a box.
No. 2, twenty dozen in a case. No. 3, twelve dozen in a case.

Automatic Hasp and Staple



No. 35

The screws are covered when Hasp is locked.

Length, 8 inches. Weight, per dozen, 5½ pounds. Packed, one dozen in a box, with screws and staple in separate envelope.

Wrought Hasps and Staples



Inches	Plain Steel per Dozen	Japanned per Dozen	Weight per Doze Pounds
5	\$ 90	\$1 10	2
6	1 00	1 20	$\frac{-}{2^{\frac{1}{4}}}$
7	1 10	1 30	$2\frac{3}{4}$
8	1 30	1 60	31/2
9	1 70	2 00	334
10	2 00	2 30	4
	Packed two de	ayan in a how	

Wrought Hasps, Hooks and Staples

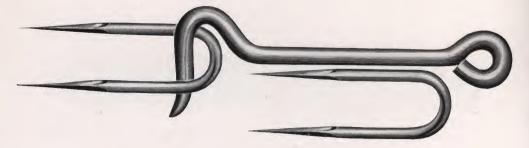


Inches	Plain Steel per Dozen	Japanned per Dozen	Weight per Doze Pounds
5	\$1 20	\$1 40	$2\frac{1}{2}$
6	1 40	1 65	234
7	1 60	1 90	314
8	1 80	2 10	334
9	2 20	2 60	414
10	2 50	3 00	51/2
	Packed one de	ozen in a box.	

Extra Heavy

Inches	Plain Steel per Dozen	per Doze Pounds
8	\$2 70	6^{1}
9	3 30	7
10	3 75	8
	Packed one dozen in a l	box.

Bright Wire Hooks and Staples



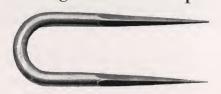
Length Inches	Diameter Inches	Price per Gross	Weight per Gross Pounds
4	1/4	\$15 00	20
$4\frac{1}{2}$	1,4	16 50	21

Extra Heavy

Length Inches 5	Diameter Inches 5/16	Price per Gross \$24 00	Weight per Gross Pounds 34
6	5/16	30 00	3712
8	3/8	72 00	72

Sizes up to and including 6-inch are packed one-quarter gross in a box; 8-inch, one dozen in a box.

Wrought Steel Staples



Length Inches	Price per Gross	Weight per Gross Pounds	Length Inches	Price per Gross	Weight per Gross Pounds
1	\$1 20	3/4	$2\frac{1}{2}$	\$2 35	334
144	1 20	1	234	2 65	434
$1\frac{1}{2}$	1 25	1½	3	3 20	5
$1\frac{3}{4}$	1 50	2	31/2	3 70	61/2
2	1 70	23/4	4	5 -25	10
$2^{\frac{1}{4}}$	2 00	3			

Sizes 1-inch to 3-inch are packed one gross in a box; 3½-inch and 4-inch, one-half gross in a box. Also packed one gross each size in a case. Weight, 45 pounds.

Special Hinges

Plain Steel, Japanned or Sherardized



Half size of No. 22

Number	Length Open Inches	Width Inches	Dozen Pairs Pounds
21	$3\frac{3}{4}$	$1\frac{3}{4}$	$4\frac{1}{4}$
22	5	21/4	$7\frac{3}{4}$
23	$6\frac{1}{4}$	$2\frac{3}{4}$	$11\frac{1}{2}$

Nos. 21 and 22, plain steel, packed one dozen pairs in a bundle. No. 23, plain steel, packed one-quarter dozen pairs in a bundle. Nos. 21 and 22, japanned, packed two dozen pairs in a box.

No. 23, japanned, packed one dozen pairs in a box.

Nos. 21, 22 and 23, sherardized, packed one pair in a box, with screws.



Half size of No. 32

Number 32

Length Open Inches

Width Inches 21/4

Weight per Dozen Pairs Pounds 9½

Packed one-quarter dozen pairs in a bundle.

NATIONAL MANUFACTURING COMPANY ILLINOIS

No. 42 Special Hinge

Plain Steel, Japanned or Sherardized



Cut two-thirds size

This Hinge is especially adapted for use on washing machines, cellar doors, etc., as the segment acts as a stop, holding the door or lid, when open, at an angle of about 45 degrees.

Weight, per dozen pairs, 8½ pounds.

Wrought Steel Washers



Sizes, ¼-inch, ¾-inch and ½-inch.

Packed in 5-pound packages.



No. 30 - Without hook. Cut full size of 41/2-inch

Length	Width	Weight
of Strap	of Joint	per Dozer
Inches	Inches	Pounds
31/4	$1\frac{1}{2}$	$3\frac{1}{2}$
41/2	$1\frac{1}{2}$	$4\frac{1}{2}$
6	$1\frac{3}{4}$	$7\frac{3}{4}$

These Hasps are made of cold rolled steel with extra large slots cut the long way of the strap. This leaves more metal around the slot and gives extra strength.

The Hook on the No. 31 is of special advantage as it holds the door closed when padlock is not in use.



No. 31 - With hook. Cut full size of 41/2-inch

Length of Strap	Width of Joint	Weight per Dozen
Inches	Inches	Pounds
41/2	$1\frac{1}{2}$	43/4
6	13/4	$8\frac{1}{2}$

Thirty-three

Hinge Hasp Staples



Size of Plate Inches	Projection of Staple Inches	For Hasp Inches
11/4 x 13/16	9/16	3
15/8 x 13/16	9/16	4
$1\frac{3}{4}$ x $1\frac{1}{2}$	5/8	6
21/16 x 13/8	3/4	8

Wrought Hinge Hasps



Length of Strap Inches	Plain Steel per Single Dozen	Japanned per Single Dozen	Sherardized per Single Dozen	Sherardized Brass Pin per Single Dozen	Approximate Number of Dozen in Barrel
3	\$ 50.	\$ 55	\$ 75	\$ 85	300
4	60	65	1 00	1 15	175
6	80	90	1 35	1 55	100
8	1 05	1 15	1 80	2 10	_60

Also packed, if desired, one in a box, with screws.

Wrought Light Strap Hinges



Size Closed Inches 3 4 5	Plain Steel per Dozen Pairs \$ 85 1 10 1 35	Japanned per Dozen Pairs \$ 95 1 20 1 50	Sherardized per Dozen Pairs \$1 30 1 75 2 35	Sherardized Brass Pin per Dozen Pairs \$1 45 2 00 2 80	Approximate Number of Dozen in Barrel 250 175 100
. 6	1 70 2 40	1 90 2 65	$\begin{array}{c} 3 & 15 \\ 4 & 30 \end{array}$	3 75 5 00	90 45

Also packed, if desired, one pair in a box, with screws.

Wrought Heavy Strap Hinges



Size Closed Inches 4 5 6 8	Plain Steel	Japanned per Dozen Pairs \$1 75 2 35 3 10 4 95	Sherardized	Sherardized Brass Pin per Dozen Pairs \$3 30 5 00 7 80 12 35	Approximate Number of Dozen in Barrel 110 85 50 32
10	$\begin{array}{c} 6 & 80 \\ 10 & 40 \\ 12 & 20 \end{array}$	7 50	15 50	19 00	19
12		11 45	23 50	27 50	12
14		13 40	25 70	30 40	10

Also packed, if desired, one pair in a box, with screws.

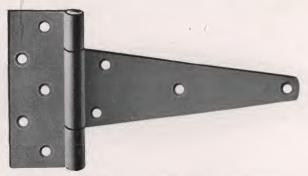
Wrought Light "T" Hinges



Length of Strap Inches	Plain Steel per Dozen Pairs	Japanned per Dozen Pairs	Sherardized per Dozen Pairs	Sherardized Brass Pin per Dozen Pairs	Approximate Number of Dozen in Barrel
3	\$ 75	\$ 85	\$1 20	\$1 50	200
4	80	90	1 35	1 70	150
5	1 00	1 10	1 70	2 .10	100
6	1 20	1 30	2 10	2 50	80
8	1 50	1 65	2 55	3 25	50

Also packed, if desired, one pair in a box, with screws.

Wrought Extra Heavy "T" Hinges



Length of Strap Inches	Plain Steel per Dozen Pairs	Japanned per Dozen Pairs	Sherardized per Dozen Pairs	Sherardized Brass Pin per Dozen Pairs	Approximate Number of Dozen in Barrel
4	\$ 1 80	\$ 2 00	\$ 3 20	\$ 3 90	65
5	2 45	2 70	4 65	6 00	40
6	3 00	3 30	6 00	8 -50	32
8	5 00	5 50	10 00	13 50	22
10	7 40	8 15	14 25	19 00	12
12	10 70	11 75	21 20	28 00	$7\frac{1}{2}$
14	11 80	13 00	23 00	30 00	7

Also packed, if desired, one pair in a box, with screws.

Method of Packing Strap and "T" Hinges and Hinge Hasps with Screws



The above illustrations give a clear idea of our method of packing Strap and "T" Hinges and Hinge Hasps in individual cartons.

Each carton is securely sealed with gummed tape, which makes it easy to handle and prevents loss of screws. The tapes also indicate instantly whether or not a package has been opened.

Prevents sending out broken packages and saves time in invoicing, as broken packages are "spotted" at a glance.

Screw Hook and Strap Hinges

Plain Steel

Rolled Threads Cold Rolled Joints



Comparative test for tensile strength, from a test made by United States Government Official:

Hot rolled soft steel, average pounds per square inch, 60,000 Cold rolled soft steel, actual pounds per square inch, 99,510

Length of Strap Inches	Approximate Weight per Dozen Pairs 22	Length of Strap Inches	Approximate Weight per Dozen Pairs 94
8	25	20	99
10	38	22	127
12	46	24	138
14	73	30	162
16	77	36	180

Wrought Steel Screw Hooks

Rolled Threads Extra Good Points

Diameter Inches	Length Inches	For Screw Hook and Strap Hinges Inches
⁷² ⁵ / ₈	5	6, 8 10, 12
3/4	6	14, 16, 18, 20
7/8	$7\frac{1}{2}$	22, 24, 30, 36

BUILDERS' HARDWARE

Wrought Corner Irons

Plain Steel or Sherardized



No. 115

Length of Sides Inches	Width Inches	Number of Holes	Length of Sides Inches	Width Inches	Number of Holes
1 x 1	1/2	2	4 x 4	78	4
1½ x 1½	5/8	4	5 x 5	1	6
2 x 2	5 8	4	6 x 6	1^{1}_{8}	6
2 x 2	78	4	6 x 8	114	7
$2\frac{1}{2} \times 2\frac{1}{2}$	5/8	4	6 x 12	114	9
3 x 3	34	4	8 x 8	1^{1}	6
$3\frac{1}{2} \times 3\frac{1}{2}$	34	4	10 x 10	$1\frac{1}{24}$	10
3 x 4	3/4	4			

Sizes up to and including $2\frac{1}{2} \times 2\frac{1}{2} \times \frac{5}{8}$ -inch packed three dozen in a box. Larger sizes packed one dozen in a bundle.

For the convenience of our customers, we pack two assortments of Corner Irons. Quantities and prices on request.

Wrought Flat Corner Irons

Plain Steel or Sherardized

	Length of Sides Inches	Width Inches	Number of Holes
	2 x 2	3/8	4
	$2\frac{1}{2} \times 2\frac{1}{2}$	3/8	4
	$2\frac{1}{2} \times 2\frac{1}{2}$	1/2	4
	3 x 3	3,8	4
	3 x 3		4
	3 x 3	1/ ₂ 5/ ₈	4
	$3\frac{1}{2} \times 3\frac{1}{2}$	3/8	4
	$3\frac{1}{2} \times 3\frac{1}{2}$		4
	$3\frac{1}{2} \times 3\frac{1}{2}$	1/ ₂ 5/ ₈	4
9	3½ x 3½	3/4	4
No. 117	4 x 4	3/4	4

Packed three dozen in a box.

Wrought Mending Plate

Plain Steel



Length Inches	Width Inches	Number of Holes
3	5/8	4
4	5/8	4
4	7/8	4
6	3/4	4
8	7/8	4
10	1	6
12	1	6

First three sizes packed three dozen in a box. Larger sizes packed one dozen in a bundle.

Steel Tie Plate

Plain or Japanned



No. 119-Cut full size

Packed one dozen in a bundle. Weight, per dozen, ¾ pound.

Steel Angle Brace

Plain or Japanned

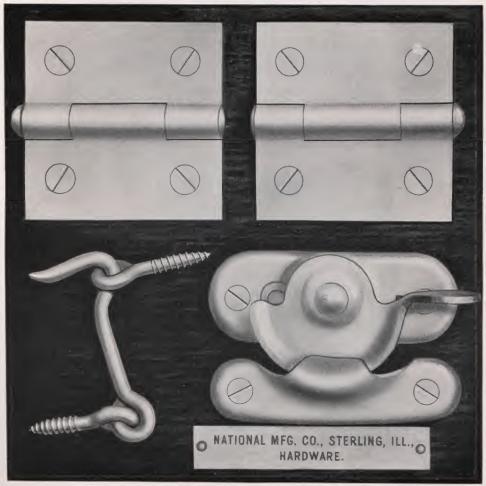


No. 120-Cut two-thirds size

Packed one dozen in a box. Weight, per dozen, ¾ pound.

BUILDERS' HARDWARE

No. 70 Cellar Window Set



Cut full size

This set consists of the following articles:

One pair 2 x 2-inch Tight Pin Butts. One only 2½-inch Hook and Eye. One only No. 600 "All Steel" Sash Lock.

All parts are heavily sherardized to prevent rust. A model as shown in the illustration is furnished free with the first order. One set, with screws, is packed in a carton. One dozen sets in a box. Twelve dozen in a case. Weight, per dozen sets, 5% pounds.

"Self-Cleaner" Pressed Steel Foot Scraper

Japanned or Sherardized



This Scraper extends out over the end of the step, so that the dirt will drop down and not gather around the Scraper.

Envelope with screws attached to each Scraper.

Weight, per dozen, 6³4 pounds.

Packed one dozen in a box.

"Upright" Pressed Steel Foot Scraper

Japanned or Sherardized



Can be used on wood or embedded in cement.

Envelope with screws attached to each Scraper.

Weight, per dozen, 7½ pounds.

Packed one dozen in a box.

"Silent" Parlor Door Hanger



No. 82-Cut shows a left-hand Hanger

A "Silent" Parlor Door Hanger in name and in fact. Extremely simple in construction, with no complicated parts to get out of order.

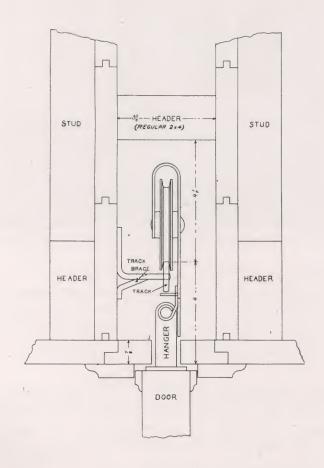
Doors are easily hung with this Hanger, as it has a flexible hinge joint which permits the Hanger to adjust itself to the top of the door, whether square or not. The full weight of the door rests on the adjusting-screw, which is extra heavy and long and will never work loose and permit the door to drop down as do the short adjusting-screws. This is further prevented by a sort of spring lock-nut at the end of the adjusting-screw. The wheel has a vulcanized-fiber tread and is supplied with roller bearings. For sectional view of bearings, see illustration on page 17.

Each set is packed complete with screws, stop and guides. With single sets the stop is not necessary.

Double sets complete with 14-foot track.
Single sets complete with 8-foot track.

Fifteen double sets in a case.
Thirty single sets in a case.
Weight, per double set, 25 pounds.
Weight, per single set, 15 pounds.

Construction of Pocket for "Silent" Parlor Door Hanger



Screen and Storm Door Set



No. 90-Cut one-half size

The combination Screen Set here illustrated is the most durable and practical set on the market. The hinges are of steel, size $3 \times 2\frac{1}{2}$ inches. They are also loose pin, so that it is not necessary to remove any screws when taking down the door. An offset hinge can be obtained by removing the pin and reversing one leaf. The pull is $4\frac{1}{2}$ inches long, made of steel and very neat.

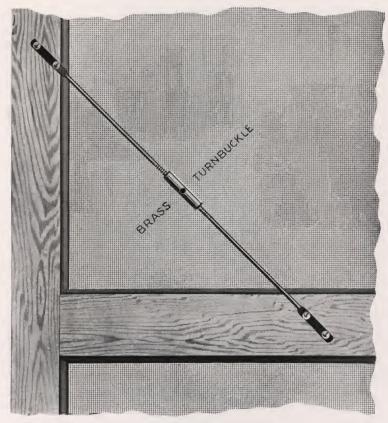
No. 3 Perfect Spring, with loop ends, packed with each set. Nickeled screws and hooks and eyes are packed with the japanned sets.

A handsome model, like cut, furnished free of charge with first order. One set, with screws, is packed in a carton, and one dozen sets in a box. Twelve dozen sets in a case.

Any finish desired. For list of finishes, see page 86.

Weight, per dozen sets, 12 pounds.

Screen Door Turnbuckle



No. 195

Our Turnbuckles are made extra long, giving additional leverage to raise the door. They can be used on either screen or storm doors. The end pieces are of steel with a *brass* Turnbuckle in the center. As brass will not rust to steel, the Turnbuckle can be easily operated at any time.

They are packed with nickeled screws, one complete Turnbuckle in a specially printed envelope, one dozen in a box. Sixty dozen in a case.

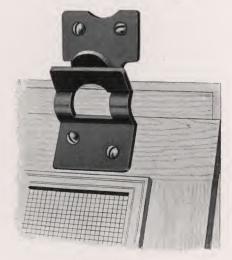
A handsome enamel-stamped display card is furnished free of charge with first order.

Any finish desired. For list of finishes, see page 86.

Weight, per dozen, 1½ pounds.

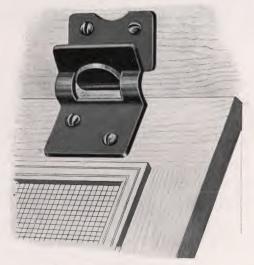
No. 80 Screen and Storm Sash Hanger

(Patented February 27, 1912) Wrought Steel or Brass



First position

Place opening in Hanger level with top of sash.



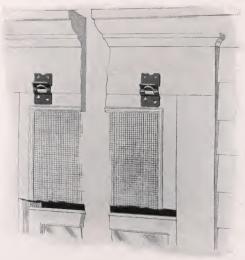
Second position

(For description, see opposite page.)

BUILDERS' HARDWARE

No. 80 Screen and Storm Sash Hanger

(Patented February 27, 1912) Wrought Steel or Brass



Third position

The three illustrations on these two pages represent our new Screen and Storm Sash Hanger in the three positions which it assumes when hanging the screen or sash.

First—The top of screen rests against blind-stop inside of casing, which serves as a guide when sliding Hanger up to engage hook on casing at top. (See first illustration.)

Second—The bottom of screen or sash is pushed out until frame on screen or sash slides over hook on casing and latches automatically. (See second illustration.)

Third—The Hangers are so constructed that they hold the screen or sash firmly in position and prevent rattling. (See third illustration.)

To attach the Hangers, first attach the bottom piece to the screen or sash, and then fasten the hook on casing.

Each set is wrapped in a separate package complete with Sherardized screws.

The Hangers are furnished japanned or sherardized. Packed one dozen sets in a box. Thirty-six dozen sets in a case.

Extra bottoms can be furnished, packed two dozen sets in a box, with screws.

A working model is furnished free with the first order.

Weight, per dozen sets, steel, 2% pounds. Weight, per dozen sets, brass, 3 pounds. Weight, extra bottoms, two dozen, 3% pounds.

Forty-nine

Bright Wire Hooks and Eyes



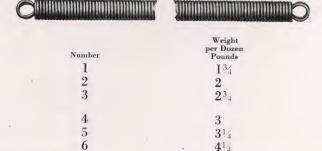
List Prices per Gross

Inches	Iron	Weight per Gross Pounds
$1\frac{1}{2}$	\$ 6 50	$3\frac{1}{2}$
2	8 00	41/2
$2\frac{1}{2}$	10 00	614
3	12 00	91/2
$3\frac{1}{2}$	14 50	12
4	17 00	$12\frac{1}{2}$
4 4½ 5	20 00	16
5	24 00	17
6	30 00	$22\frac{1}{2}$
0	30 00	4472

Packed as follows: 1½-inch, one gross in a box; 2-inch to 4-inch, one-half gross in a box; 4½-inch to 6-inch, one-fourth gross in a box.

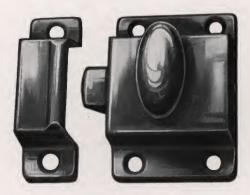
Perfect Door and Gate Spring

Japanned or Plated



Packed one dozen in a box, with hooks.

Pressed Steel or Brass Cupboard Turn



No. 699-Cut full size

This Turn is the same design as our No. 702 Cupboard Turn illustrated on page 53, but is much smaller. A very popular size.

They are made of cold rolled steel and also of solid brass.

The Pressed Steel Turn has a solid-brass top on knob.

The bolt has rounded point same as high-grade door locks.

The strike has a rounded top, providing a roller-shaped bearing on which bolt works easily.

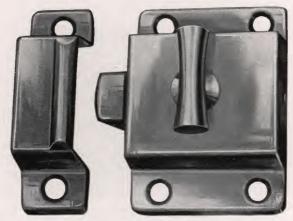
The Turns are simple in construction, having but few parts. Cannot get out of order.

All standard finishes are kept regularly in stock. Special finishes on short notice. For list of finishes, see page 86.

Each Turn is wrapped in a separate package, complete with screws. Packed one dozen in a box.

Weight, per dozen, 14 pounds.

Pressed Steel or Brass Cupboard Turn



No. 700-"T" Knob-Cut full size

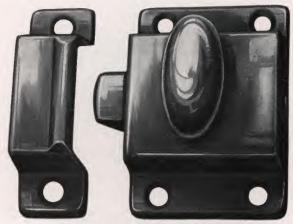
(For description, see opposite page.)



No. 701 - Round Knob - Cut full size

(For description, see opposite page.)

Pressed Steel or Brass Cupboard Turn



No. 702-Oval Knob-Cut full size

The above cut, together with the two on page 52, illustrates our three designs in Cupboard Turns.

The following are points of merit:

They are made of cold rolled steel and also of solid brass.

The No. 702 Pressed Steel Turn has a solid-brass top on knob.

The bolt has a rounded point same as high-grade door locks.

The strike has a rounded top, providing a roller-shaped bearing on which bolt works easily.

The Turns are simple in construction, having but few parts. Cannot get out of order.

All standard finishes are kept regularly in stock. Special finishes on short notice. For list of finishes, see page 86.

Each Turn is wrapped in a separate package, complete with screws. Packed one dozen in a box. Forty-eight dozen in a case.

Weight, per dozen, 2 pounds.

No. 600 Sash Lock

(Patented October 6, 1908)

All Steel or Solid Brass



No. 600-Cut full size



Bottom view of Sash Lock

The Sash Lock here illustrated is our latest model, and one which we consider superior to any other. The Lock is made of cold rolled steel throughout, taking an exceptionally fine finish; also furnished in solid brass.

The lower illustration shows the simple construction of this Lock. The coil spring is made of finest piano wire, fully tested. Owing to the peculiar and simple construction of the Lock, friction is reduced to the minimum and the rigidity of the Lock is retained.

Each Lock is wrapped in a separate package, complete with screws. Packed one dozen in a box. Seventy-two dozen in a case. Any finish desired. For list of finishes, see page 86.

Weight, per dozen, 2 pounds.

Wrought Steel Sash Lift



No. 130 - Cut full size

Packed one-half gross in a box, with screws. Eight gross in a case. Any finish desired. For list of finishes, see page 86.

Weight per gross, 434 pounds.

Wrought Steel Beveled Sash Lift



No. 135-Cut full size

The sectional view at the right shows the liberal projection for the fingers—an unusually valuable feature of this lift.

Packed one-half gross in a box, with oval-head screws. Eight gross in a case. Any finish desired. For list of finishes, see page 86.

Flush Sash Lift

Pressed Steel



No. 140-Cut full size

Each Lift is wrapped in a separate package, complete with screws. Packed one-quarter gross in a box. Any finish desired. For list of finishes, see page 86.

Weight, per gross, 91/2 pounds.

Bar Sash Lift and Drawer Pull

Pressed Steel or Brass



Four Sash Lifts, with screws in envelope, tied in a package. Packed one-quarter gross in a box. Five gross in a case. Any finish desired. For list of finishes, see page 86.

311/4

25

 $4\frac{1}{2}$

Bar Sash Lift and Drawer Pull

Cast Iron



Envelope with screws attached to each Sash Lift. Packed one-quarter gross in a box. Four gross in a case. Any finish desired. For list of finishes, see page 86.

Crescent Drawer Pull

Pressed Steel or Brass



Each Crescent Pull is wrapped in a separate package, complete with screws. Packed one-quarter gross in a box. Six gross in a case. Any finish desired. For list of finishes, see page 86.

131/2

33/4

141/2

Drawer Pull

Pressed Steel or Brass



No. 205 - Cut full size of 314-inch

Length Inches	Width Inches	Weight per Gross Pounds	Number of Gross in Case
$2\frac{3}{4}$	1/2	$5\frac{1}{4}$	-5
$3\frac{1}{4}$	5/8	73/4	6
$4\frac{1}{2}$	3/4	13	5

Packed one-quarter gross in a box, with screws. Any finish desired. For list of finishes, see page 86.

No. 210 Screen Lift

Japanned or Plated



Packed one-half gross in a box, complete with screws. Any finish desired. For list of finishes, see page 86.

Weight, per gross, 41/2 pounds

Ornamental Butts and Hinges

On the following pages will be found illustrations and descriptive matter pertaining to the Ornamental Butts and Hinges.

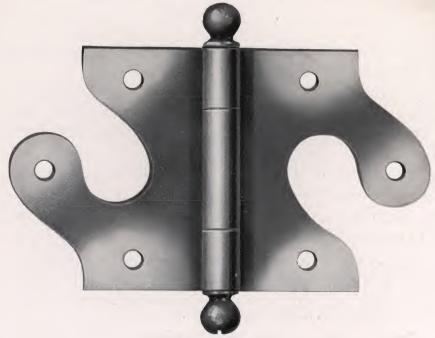
The Ornamental Butts and Hinges were originated and placed on the market by this firm in 1904. They proved so popular that they are now being used in many places in preference to the old-style or common butts.

Sizes, methods of packing and other interesting information are given in connection with the illustrations.

The following are points of superiority as compared with the oldstyle or common butts:

- First—Wherever these Butts and Hinges have been used, contractors have found that they save at least one-half the time required to hang the doors. The method of procedure is very simple and will be readily understood by referring to the diagram and instructions on page 73.
- Second—All sizes of these Butts, both japanned and plated, are packed with screws. The 2½-inch, 3-inch, 3½-inch, 4-inch and 4½-inch sizes are packed one pair in a box. The 2-inch are packed one-half dozen pairs in a box, each pair in a separate envelope with screws. The 1½-inch and 1¾-inch sizes are packed one dozen pairs in a box, each pair in a separate envelope with screws. Six pairs of each size, 2½-inch and larger, each pair in a separate box, are tied in a package for the convenience of the merchant in handling them.
- Third—All sizes from 2-inch to 4½-inch, inclusive, are made with the double tips. The false tip is threaded and screws into the Butt, and also has a slot for a screw-driver, making it very easy to remove the tip, should the threads become corroded. The pin can then be easily removed. The slot also indicates to the carpenter which is the bottom of the Butt. This is a good, strong selling feature and is of practical value to the carpenter and builder.
- Fourth—The screws in the Ornamental Butts will sustain a much greater weight than the screws in the same size common butts. In the Ornamental Butts the screws are subjected to a shearing strain, while the screws in the common butts must withstand a drawing strain. The advantage is obvious. With the first order for Ornamental Butts and Hinges, we furnish free of charge a handsome mounted model.

No. 355 Ornamental Surface Hinge



Cut full size of 21/2-inch

Width Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
11/2	Oval head	Flat	1 dozen	2	40
13/4	Oval head	Flat	1 dozen	3	32
$2\frac{1}{2}$	Ball tip	Flat	1 pair	$7\frac{1}{2}$	12

Sizes 1½-inch and 1¾-inch are packed one pair in an envelope, with screws. (See page 6.)



Cut full size of 11/2-inch

BUILDERS' HARDWARE

No. 350 Ornamental Cupboard Butt



Cut full size of 21/2-inch-Left-hand

Width Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
11/2	Oval head	Flat	1 dozen	2	40
13/4	Oval head	Flat	1 dozen	23/4	32
$2\frac{1}{2}$	Ball tip	Offset	1 pair	7	12

Sizes 1½-inch and 1¾-inch are packed one pair in an envelope, with screws. (See page 6.)



Cut full size of 11/2-inch-Left-hand

No. 350 Ornamental Butt



Cut full size of 31/2-inch-Left-hand

No. 350 Ornamental Butt

Made of cold rolled steel, highly polished.

The false tip is threaded and screws into the Butt. It is also slotted for a screw-driver, making it easy to remove the tip and affording ready access to the pin.

The slot also indicates which is the bottom of the Butt—a very popular feature with carpenters and builders. Further detailed description on page 59.

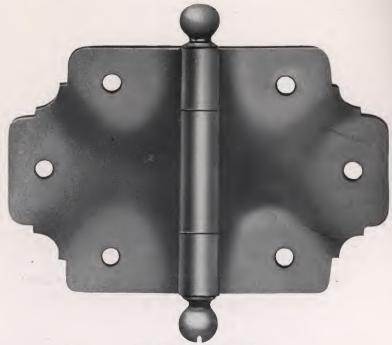
Furnished in rights and lefts. One pair—a right and a left—in a carton, complete with screws. Any finish desired. For list of finishes, see page 86.

Made in the following sizes:

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3	$11\frac{1}{4}$	12
$3\frac{1}{2}$	$17\frac{1}{2}$	12
4	$21\frac{3}{4}$	12

For smaller sizes, see page 61.

No. 405 Ornamental Surface Hinge



Cut full size of 21/2-inch

Width Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
11/2	Oval head	Flat	1 dozen	2	40
13/4	Oval head	Flat	1 dozen	$\frac{2}{2}$ 1/2	32
2	Ball tip	Flat	½ dozen	41/4	18
$2\frac{1}{2}$	Ball tip	Flat	1 pair	7	12

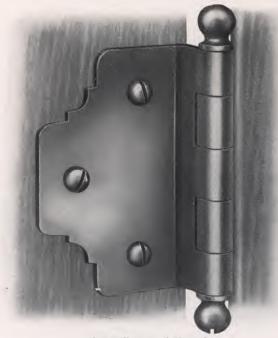
Sizes $1\frac{1}{2}$ -inch, $1\frac{3}{4}$ -inch and 2-inch are packed one pair in an envelope, with screws. (See page 6.)



Cut full size of 11/2-inch

BUILDERS' HARDWARE

No. 400 Ornamental Cupboard Butt



Cut full size of 21/2-inch

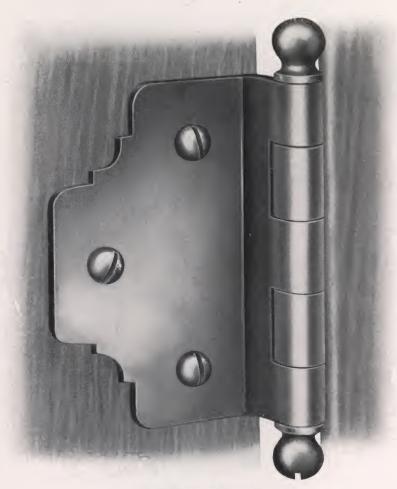
Width Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
11/2	Oval head	Flat	1 dozen	2	40
13/4	Oval head	Flat	1 dozen	$2\frac{1}{2}$	32
2	Ball tip	Flat	½ dozen	4	18
$2\frac{1}{2}$	Ball tip	Offset	1 pair	7	12

Sizes 1½-inch, 1¾-inch and 2-inch are packed one pair in an envelope, with screws. (See page 6.)



Cut full size of 11/2-inch

No. 400 Ornamental Butt



Cut full size of 31/2-inch

No. 400 Ornamental Butt

Made of cold rolled steel, highly polished.

Tapped at both ends, making it reversible.

The false tip is threaded and screws into the Butt. It also has a slot for a screw-driver, making it easy to remove the tip and affording ready access to the pin.

The slot also indicates which is the bottom of the Butt—a very popular feature with carpenters and builders. Further detailed description on page 59.

Packed one pair in a carton, with screws. Any finish desired. For list of finishes, see page 86.

Made in the following sizes:

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3	11	12
$3\frac{1}{2}$	$17\frac{1}{2}$	12
4	21%	12
$4\frac{1}{2}$	$28\frac{1}{2}$	6

For smaller sizes, see page 65.

No. 455 Ornamental Surface Hinge



Cut full size of 21/2-inch

Width Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
$1\frac{1}{2}$	Oval head	Flat	1 dozen	2	40
$1\frac{3}{4}$	Oval head	Flat	1 dozen	23/4	32
2	Ball tip	Flat	$\frac{1}{2}$ dozen	4	18
$2\frac{1}{2}$	Ball tip	Flat	1 pair	$7\frac{1}{2}$	12

Sizes $1\frac{1}{2}$ -inch, $1\frac{3}{4}$ -inch and 2-inch are packed one pair in an envelope, with screws. (See page 6.)



Cut full size of 11/2-inch

BUILDERS' HARDWARE

No. 450 Ornamental Cupboard Butt



Cut full size of 21/2-inch

Width Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
$1\frac{1}{2}$	Oval head	Flat	1 dozen	2	40
13/4	Oval head	Flat	1 dozen	$2\frac{1}{2}$	32
2	Ball tip	Flat	½ dozen	5	18
21/2	Ball tip	Offset	1 pair	8	12

Sizes $1\frac{1}{2}$ -inch, $1\frac{3}{4}$ -inch and 2-inch are packed one pair in an envelope, with screws. (See page 6.)



Cut full size of 11/2-inch

No. 450 Ornamental Butt



Cut full size of 31/2-inch

BUILDERS' HARDWARE

No. 450 Ornamental Cupboard Butt



Cut full size of 21/2-inch

Width Inches	Kind of Pin	Style	Number Pairs in Box	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
$1\frac{1}{2}$	Oval head	Flat	1 dozen	2	40
13/4	Oval head	Flat	1 dozen	$2\frac{1}{2}$	32
2	Ball tip	Flat	½ dozen	5	18
$2\frac{1}{2}$	Ball tip	Offset	1 pair	8	12

Sizes $1\frac{1}{2}$ -inch, $1\frac{3}{4}$ -inch and 2-inch are packed one pair in an envelope, with screws. (See page 6.)



Cut full size of 11/2-inch

No. 450 Ornamental Butt



Cut full size of 31/2-inch

No. 450 Ornamental Butt

Made of selected cold rolled steel, highly polished, double-plated, with beveled edges.

Tapped at both ends, making it reversible.

The false tip is threaded and screws into the Butt. It is also slotted for a screw-driver, making it easy to remove the tip and affording ready access to the pin.

The slot also indicates which is the bottom of the Butt—a very popular feature with carpenters and builders.

This design matches very nicely the escutcheon plates with beveled edges, giving a very harmonious effect.

Each pair wrapped in tissue paper. One pair in a carton, complete with screws. Any finish desired. For list of finishes, see page 86.

Made in the following sizes:

Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
3	$11\frac{1}{2}$	12
$3\frac{1}{2}$	$17\frac{1}{2}$	12
4	22	12
$4\frac{1}{2}$	29	6

For smaller sizes, see page 69.

No. 485 Ornamental Hinge



Made of cold rolled steel. Embossed leaves. Smooth knuckles.

Length of joint, 1\%16 inches. Size, open, 2\% inches.

Packed one dozen pairs in a box, each pair in a separate envelope with % x 5 oval-head screws. Thirty-two dozen pairs in a case.

Any finish desired. For list of finishes, see page 86.

Weight, per dozen, 2 pounds.

One-Piece Stop Bead Screw

Requires no washer





No. 300 - Cut full size of 11/8 x 8

Size Inches
1½ x 8
1¼ x 10

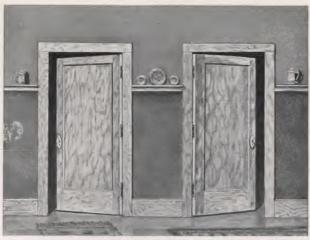
Weight per Gross Pounds

1
1½

Packed one gross in a box. For list of finishes, see page 86.

Hands of Doors

Take hand from outside of house or room



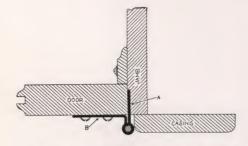
No. 1—Right-hand Figure No. 1 requires right-hand Butts

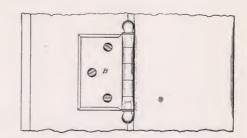
No. 2—Left-hand Figure No. 2 requires left-hand Butts

Refer to this cut when ordering No. 350 Ornamental Butts, as they are made in rights and lefts. The Nos. 400 and 450 Ornamental Butts are reversible.

Directions for Hanging Doors

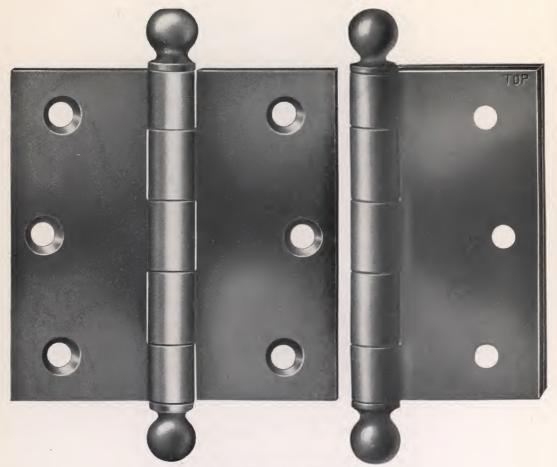
with Ornamental Butts





First attach Butt part "A" to jamb, then set and wedge door into place and fasten ornamental leaf "B."

No. 500 Wrought Steel Ball Tip Butt



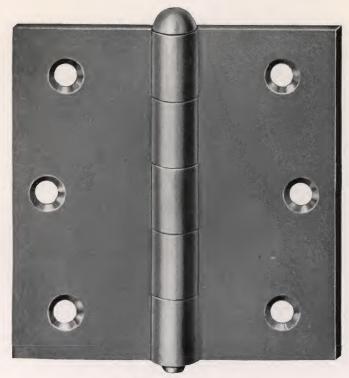
Cut full size of 31/2 x 31/2-inch

		Cut full Size of	O'Z A O'Z-IHCH		
Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case	Size Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	4	18	$3\frac{1}{2} \times 3\frac{1}{2}$	15	12
$2\frac{1}{2} \times 2\frac{1}{2}$	7	16	4 x 4	19	12
$3 \times 2\frac{1}{2}$	9	16	$4\frac{1}{2} \times 4\frac{1}{2}$	25	6
3 x 3	10	16	5 x 5	33	6
$3\frac{1}{2} \times 3$	$14\frac{1}{2}$	12			

The 2 x 2-inch Bright Steel, Japanned and Plated Butts are packed one-half dozen pairs in a carton, each pair in a separate envelope, with screws. (See page 6.) All other sizes are packed one pair in a box, each Plated Butt wrapped separately, with screws. The slotted and threaded tip has been discontinued on this style, and the word "top" is stamped on upper end of leaf. For list of finishes, see page 86.

BUILDERS' HARDWARE

No. 504 Wrought Steel Reversible Butt



Cut full size of 3½ x 3½-inch

	Weight per	
Size Inches	Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	$3\frac{1}{4}$	18
$2\frac{1}{2} \times 2\frac{1}{2}$	$5\frac{3}{4}$	16
3 x $2\frac{1}{2}$	8	16
3 x 3	9	16
$3\frac{1}{2} \times 3$	$12\frac{1}{2}$	12
$3\frac{1}{2} \times 3\frac{1}{2}$	$13\frac{1}{2}$	12
4 x 4	17	12
$4\frac{1}{2} \times 4\frac{1}{2}$	24	6

These Butts are bright steel. Also furnished sherardized, with steel or brass pin. The 2 x 2-inch Butts are packed one-half dozen pairs in a box, each pair in a separate envelope, with screws. (See page 6.) All other sizes are packed one pair in a box, with screws.

No. 505 Wrought Steel Broad Butt

Tight Pin

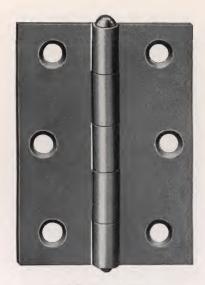


Cut full size of 3½ x 3½-inch

Weight per Dozen Pairs Pounds	Dozen Pairs in Case
$3\frac{1}{4}$	18
53/4	16
8	16
9	16
$12\frac{1}{2}$	12
$13\frac{1}{2}$	12
17	12
24	6
	Dozen Pairs Pounds 31/4 53/4 8 9 121/2 131/2 17

These Butts are bright steel. Also furnished sherardized, with steel or brass pin. The 2x2-inch Butts are packed one-half dozen pairs in a box, each pair in a separate envelope, with screws. (See page 6.) All other sizes are packed one pair in a box, with screws.

No. 508 Wrought Steel Light Narrow Butt Loose Pin

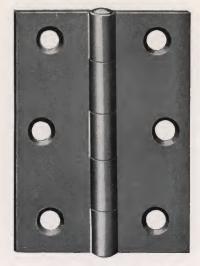


Cut full size of 21/2-inch

Length Inches	Width Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
11/2	17/16	$1\frac{3}{4}$	50
13/4	17/16	21/4	50
2	1%16	$2\frac{1}{2}$	25
21/4	111/16	$2\frac{3}{4}$	25
$2\frac{1}{2}$	111/16	3	25
3	2	$4\frac{1}{2}$	25

These Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 6.) Any finish desired. For list of finishes, see page 86.

No. 518 Wrought Steel Light Narrow Butt Tight Pin

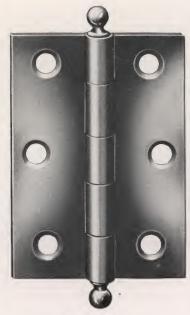


Cut full size of 21/2-inch

Length Inches	Width Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
$1\frac{1}{2}$	17/16	$1\frac{3}{4}$	50
13/4	17/16	21/4	50
2	1%16	$2\frac{1}{2}$	25
$2\frac{1}{4}$	111/16	23/4	25
$2\frac{1}{2}$	111/16	3	25
3	2	$4\frac{1}{2}$	25

These Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 6.) Any finish desired. For list of finishes, see page 86.

No. 528 Wrought Steel Light Narrow Butt Ball Tip



Cut full size of 21/2-inch

Length Inches	Width Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2	1%16	$2\frac{1}{2}$	25
$2\frac{1}{4}$	$1^{11/\!\!/_{16}}$	23/4	25
$2\frac{1}{2}$	111/16	3	25
3	2	43/4	25

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 6.) Any finish desired. For list of finishes, see page 86.

No. 608 Wrought Steel Light Reversible Butt



Cut full size of 21/2 x 21/2-inch

Size Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	23/4	50
$2\frac{1}{2} \times 2$	31/4	50
2½ x 2½	3¾	25
3 x 2½	51/4	25
3 x 3	6	25

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 6.) Any finish desired. For list of finishes, see page 86.

No. 628 Wrought Steel Light Ball Tip Butt



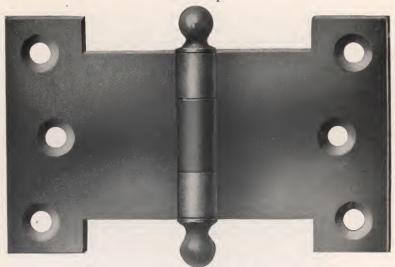
Cut full size of 21/2 x 21/2-inch

Size Open Inches	Weight per Dozen Pairs Pounds	Dozen Pairs in Case
2 x 2	23/4	50
$2\frac{1}{2} \times 2$	$3\frac{1}{4}$	50
$2\frac{1}{2} \times 2\frac{1}{2}$	4	25
$3 \times 2^{1/2}$	$5\frac{1}{2}$	25
3 x 3	$6\frac{1}{4}$	25

All sizes of these Butts are packed one dozen pairs in a box, each pair in a separate envelope, with screws. (See page 6.) Any finish desired. For list of finishes, see page 86.

NATIONAL MANUFACTURING COMPANY STERLING, ILLINOIS

No. 650 Wrought Steel Parliament Butt



Cut full size of 4-inch

	Weight per
Size Open	Dozen Pairs
Inches	Pounds
$3\frac{1}{2}$	$7\frac{3}{4}$
4	81/4
$4\frac{1}{2}$	$8\frac{3}{4}$
5	$10\frac{1}{2}$

Especially adapted for hanging French windows. Packed one pair in a box, with screws. Any finish desired. For list of finishes, see page 86.

No. 121 Loose Pin Surface Hinge



Cut one-half size

Packed one pair in a box, with screws. Sixteen dozen pairs in a case. Any finish desired. For list of finishes, see page 86.

Weight, per dozen pairs, 71/2 pounds.

Eighty-two

The "Best" Chimney Cap



The legs have a radial adjustment, so that each size will fit any chimney up to the largest size for which it is designed. No mortar or cement is necessary, as the legs will keep it in place.

Made in the following sizes, packed one-half dozen in a crate:

No. 10 for Chimneys	Collar for 7-inch Pipe
11/2 x 2 Brick	Flues 4 x 8
2 x 2 Brick	Flues 8 x 8
· Weight, per dozen.	140 pounds.

No. 10½ for Chimneys	Collar
·	for 8-inch Pipe
11/2 x 2 Brick	Flues 4 x 8
2 x 2 Brick	Flues 8 x 8
1½ x 2½ Brick	Flues 4 x 12
2 x 2½ Brick	Flues 8 x 12
Weight, per dozen	. 160 pounds

No. 12 for Chimneys	Collar for 10-inch Pipe
2 x 3 Brick	Flues 8 x 16
2½ x 2½ Brick	Flues 12 x 12
21/2 x 3 Brick	Flues 12 x 16
Weight, per dozen,	370 pounds.

The "Best" Revolving Chimney Top



Made of cast iron, except the vane, which is made of heavy steel. Fitted with perfectly adjusted ball bearings above and below.

The slightest breeze turns the back of the hood to the wind and causes a suction which makes a strong draft for the chimney.

Absolutely prevents rain from beating into the chimney. Practically indestructible.

Made in the following sizes:

No. $1\frac{1}{2}$ for Chimneys $1\frac{1}{2}$ x 2 Brick, Flues 4 x 8 2 x 2 Brick, Flues 8 x 8

No. 1½ for Chimneys

1½ x 2½ Brick, Flues 4 x 12

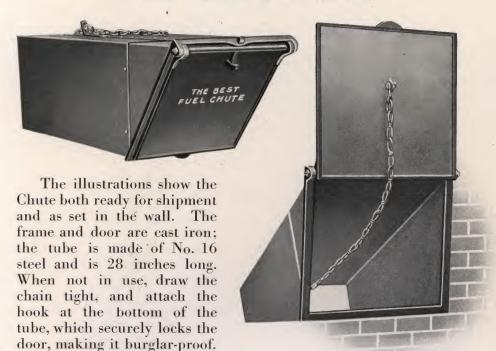
2 x 2½ Brick, Flues 8 x 12

Weight, per dozen, 360 pounds.

No. 3 for Chimneys
2 x 3 Brick, Flues 8 x 16
2½ x 3 Brick, Flues 12 x 16

Weight, per dozen, 480 pounds.

The "Best" Fuel Chute



To open the door, attach the last link to hook, and when door is opened, it holds chain to top of tube, out of the way. The cover is held open by the hook on the door engaging with the hook on the top of the frame. The door opening up protects the siding.

The "Best" has a flange overlapping the top of the door, this preventing the rain from running down the Chute and rusting it out. The "Best" is neat, practical and durable, and is proving a good seller with leading dealers everywhere. It is a money-maker.

Made in three sizes:

Number	Size Outside Inches	Weight Pounds
1	18 x 18	65
2	18×24	90
3	20×26	220

The No. 3 is all cast iron, with Chute 16 inches long. The Chute is very heavy and strong, being designed for soft coal.

Finishes, with Their Abbreviations

The following is a list of the regular finishes of plated goods which we carry in stock. Any special finish can be furnished on short notice

Finish	Abbreviation
Bright Steel	Brt. S.
Sherardized	Sher.
Amber Bronze	Amber
Japanned	Jap.
Japanned	D. B. Jap.
Copper Washed	Cop. W.
Antique Copper	A. C.
Dull Antique Copper	Dull A. C.
Dull Copper	Dull C.
Bright Copper	Brt. C.
Antique Brass	. Ant. B.
	Dull A. B.
Dull Antique Brass Not Shaded	Dull A. B. N. S.
Dull Brass	Dull B.
Bronze	Brze.
Statuary Bronze	Stat. Brze.
Statuary Bronze Sand-Blast	Stat. Brze. S. B.
Antique Copper Sand-Blast	
Antique Copper Sand-Blast Not Shaded	
Dull Antique Copper Sand-Blast	Dull A. C. S. B.
Dull Antique Copper Sand-Blast Not Shaded .	Dull A. C. S. B. N. S.
Antique Brass Sand-Blast	A. B. S. B.
Antique Brass Sand-Blast Not Shaded	A. B. S. B. N. S.
Dull Antique Brass Sand-Blast	Dull A. B. S. B.
Dull Antique Brass Sand-Blast Not Shaded .	Dull A. B. S. B. N. S.
Dull Brass Sand-Blast	Dull B. S. B.
Nickel	Nick.
Electro Bower Barff	E. B. B.
Bright Brass	Brt. Brs.

Brush Brass and Lemon Brass finishes mean the same as Dull Brass. Old Brass is the same as Antique Brass.

BUILDERS' HARDWARE

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NATIONAL MANUFACTURING COMPANY STERLING, ILLINOIS

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